



# CBAD

## Cannon-Based Air Defense

Cannon-Based Air Defense is a system-of-systems solution to engage and defeat large quantities of low-cost air threats. It provides terminal defense for air bases and augments existing air defense solutions in the field today. The system includes layered effectors and sensors integrated into the force with battle management command and control (BMC2) systems.

The enabling technology for CBAD is the development of guided ammunition. This provides a lethal, cost-effective, and resilient interceptor against a wide range of aerial threats. Launched in small salvos, these munitions are capable of multiple, continuous inflight maneuvers towards threats, increasing range and maximizing lethality. Guided ammunition is scalable across several calibers, allowing for layered defenses.

### KEY DIFFERENTIATORS

- |                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Low Cost                       | Cannon Battery ~50% Less Than Missile Batteries • Cost Per Effect ~99.5% Less Than Interceptor Missile                           |
| Large Quantity of Stowed Kills | Typical Medium Caliber Weapons Carry 200-400 Rounds • Battery's Effective Ready Magazine is ~10X-15X Larger Than Missile Systems |
| Simplified Logistics           | Substantially Smaller Resupply Demand ~28X-39X Easier to Transport Ammunition than Missile Interceptors                          |

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Cannon-Based Air Defense  
(CBAD)

